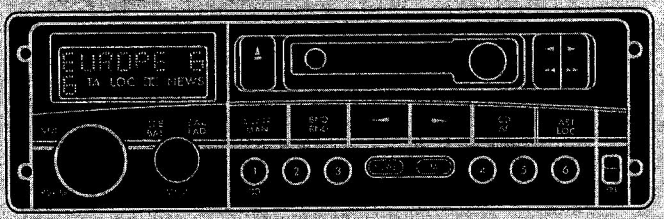
PHILIPS

PHILIPS

Philips DC512 DC522 DC532

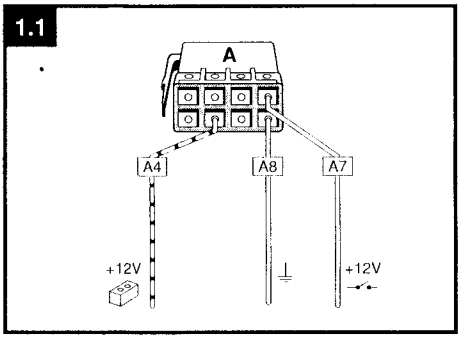
CASSETTE RECEIVER

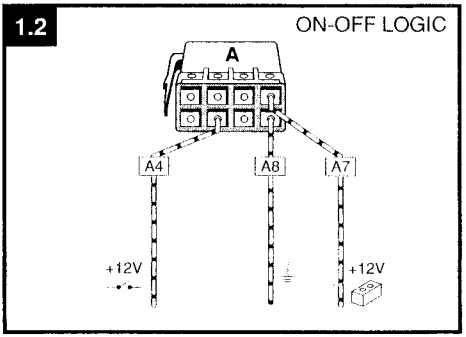


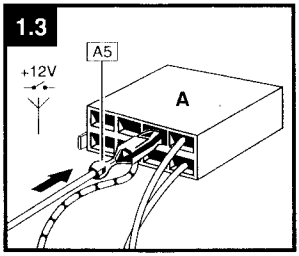
Operating instructions
Mode d'emploi
Bedienungsanleitung
Gebruiksaanwijzing
Istruzioni d'uso
Instrucciones de manejo
Modo de emprego
Bruksanvisning
Betjeningsvejledning
Käyttöohje

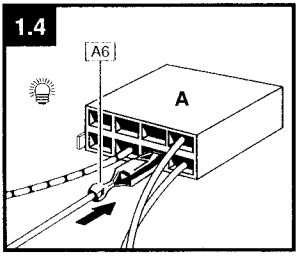
Philips Car Stereo

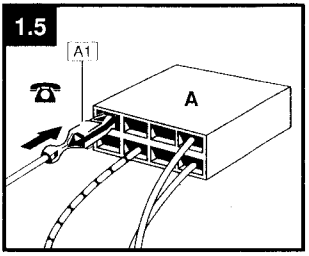
Warning:	To prevent short-circuiting, disconnect the negative car battery terminal until the set has been mounted and connected.
Avertissement :	Afin d'éviter tout court-circuit, déconnecter la borne négative de la batterie du véhicule jusqu'à ce que l'appareil ait été monté et branché.
Warnung:	Zur Vermeidung von Kurzschlüssen den Minuspol der Batterie für die Dauer des Radio-Einbaus abklemmen.
Waarschuwing:	Om kortsluiting te voorkomen, moet u vóór het inbouwen en aansluiten van het apparaat de negatieve accuklem losmaken.
Avvertenza:	Per evitare cortocircuiti, staccate il morsetto negativo della batteria dell'auto finché l'apparecchio non è stato montato e collegato.
Precaución:	Para evitar cortocircuitos, desconecte el borne negativo de la batería del vehículo hasta que la unidad haya sido instalada y conectada.
Aviso:	a fim de evitar curto-circuitos, desligue o terminal negativo da bateria do carro até o aparelho ter sido montado e ligado.
Varning:	Förhindra kortslutning genom att lossa minuskabeln från bilbatteriet. När bilstereon är monterad och ansluten sätts minuskabeln på plats igen.
Advarsel:	For at forhindre kortslutning, skal den negative pol til bilens akkumulator afbrydes, indtil apparatet er monteret og tilsluttet.
Varoitus:	Irrota oikosulun välttämiseksi akun miinuskaapeli radion asennuksen ja kytkemisen ajaksi.
Attention:	Please adjust the volume at such a level that you can still hear traffic signals. (horns, sirens . . .)
Attention:	Veiller à régler le volume à un niveau permettant d'entendre les signaux du trafic routier (par exemple avertisseurs sonores, sirènes, etc.)
Achtung:	Stellen Sie die Lautstärke bitte so ein, daß Sie noch die Straßengeräusche (Hupe, Sirene usw.) wahrnehmen können.
Let op:	Regel het volume zodanig dat u verkeerssignalen (claxons, sirenes...) nog goed kunt horen.
Attenzione:	Per favore regolate il livello del volume in modo da poter sentire ancora i segnali acustici della circolazione (avvisatori acustici, sirene, etc.).
Atención:	Regule el volumen del equipo de tal manera que no le impida percibir las señales acústicas del tráfico (claxons, sirenas, etc...).
Atenção:	Regule por favor o volume num nível em que possa ouvir os sinais de tráfego (buzinas, sirenes ...).
Observera:	Ställ in volymkontrollen så att du fortfarande kan höra signalerna (signal-horn, sirener ...) från dina medtrafikanter.
Bemærk:	Indstil styrken således at De stadig er i stand til at høre trafik signaler (horn, udryknings-sirener o.s.v.).
Huomio:	Säädä äänenvoimakkuuden taso sellaiseksi, että kuulet silti muun liikenteen äänet (äänimerkit, hälytyssireenit ...).

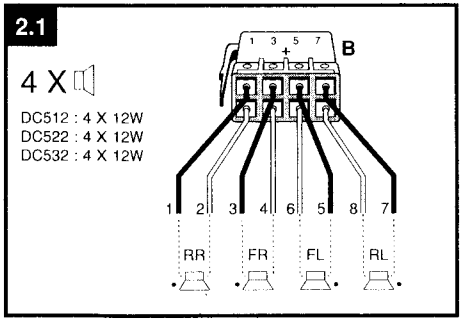

1.1
A
A4
A8
A7
+12V
+12V

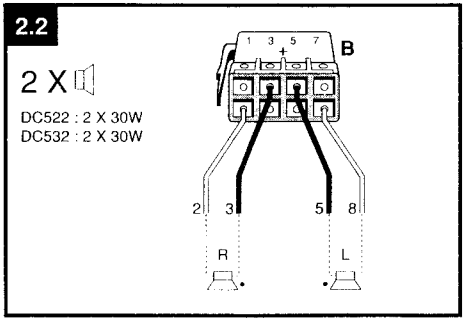

1.2
ON-OFF LOGIC
A
A4
A8
A7
+12V
+12V

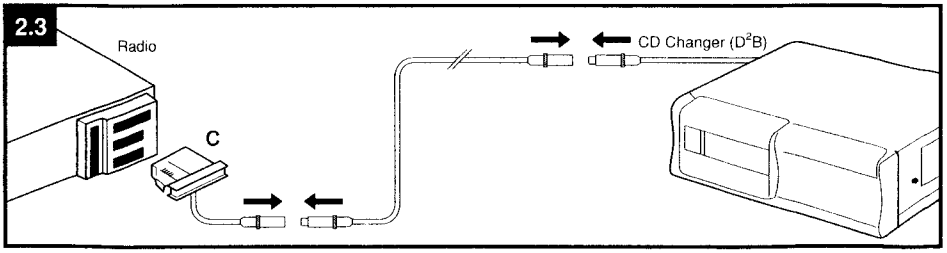

1.3
+12V
A5
A

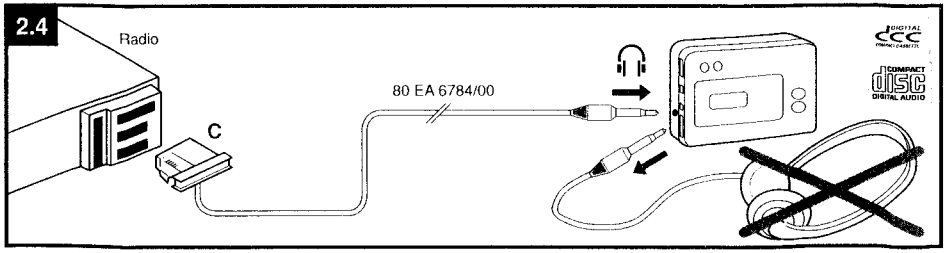

1.4
A6
A

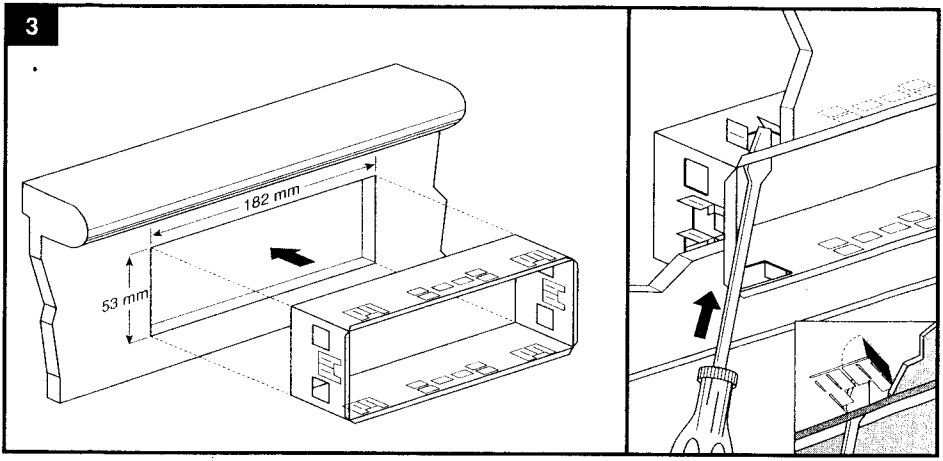

1.5
A1
A

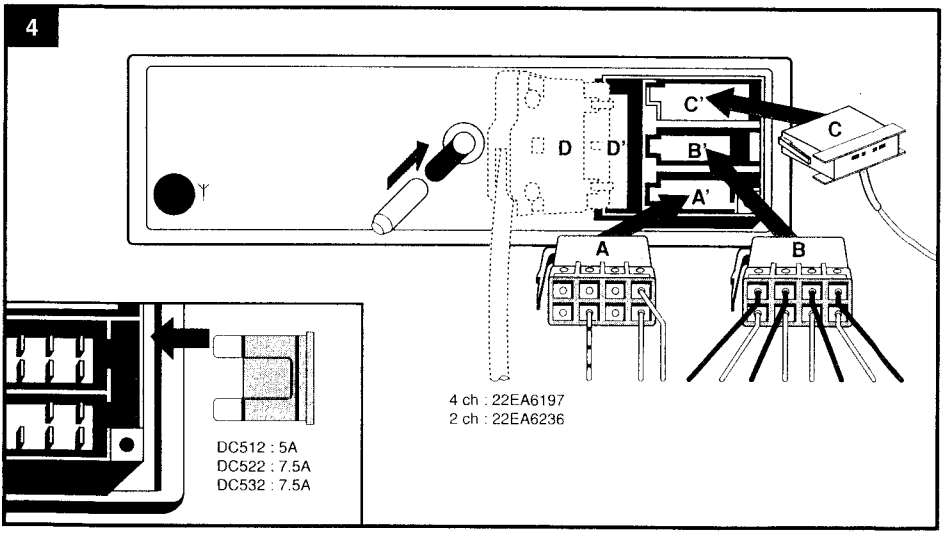

2.1
4 X
DC512 : 4 X 12W
DC522 : 4 X 12W
DC532 : 4 X 12W
1 3 5 7
B
1 2 3 4 6 5 8 7
RR
FR
FL
RL

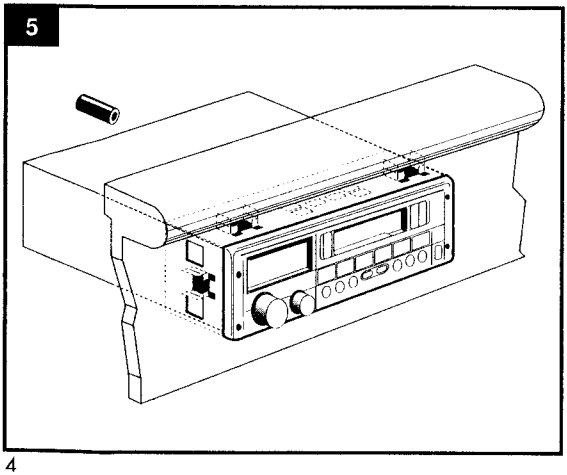

2.2
2 X
DC522 : 2 X 30W
DC532 : 2 X 30W
1 3 5 7
B
2 3 5 8
R
L

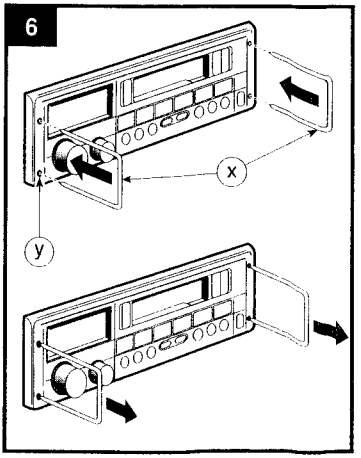

2.3
Radio
C
CD Changer (D²B)


2.4
Radio
C
80 EA 6784/00


3
182 mm
53 mm


4
C'
C
D
D'
B'
A'
A
B
DC512 : 5A
DC522 : 7.5A
DC532 : 7.5A
4 ch : 22EA6197
2 ch : 22EA6236


5


6
x
y

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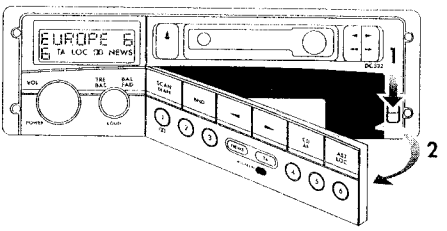
SECURITY

For theft protection this set is provided with the following security features:

1. DETACHABLE KEYBOARD

- Always take the detachable keyboard with you when leaving the car. Keep it in its protective case.
- For safety reasons, always replace the detachable keyboard before starting to drive.

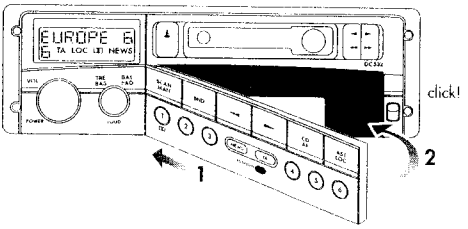
DETACH



REMOVING KEYBOARD

[1] Slide the release key downwards.
[2] Remove the keyboard.

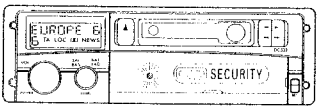
ATTACH



REPLACING KEYBOARD

[1] Insert the keyboard starting with the left-hand side of the set.
[2] Push the keyboard until it clicks into position.

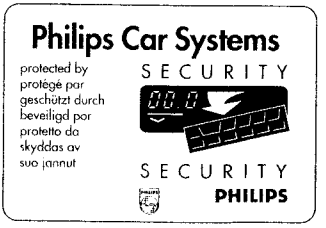
2. SWITCHABLE WARNING LED



When the detachable keyboard is removed, the red LED flashes to indicate that the set is protected (the set must be connected according to the 'MOUNTING INSTRUCTIONS').

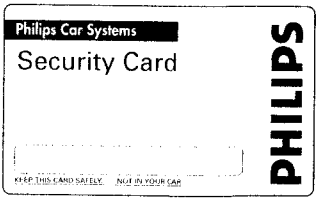
- You can stop, or start, the LED from flashing by pressing the POWER knob.

3. SECURITY WARNING STICKERS

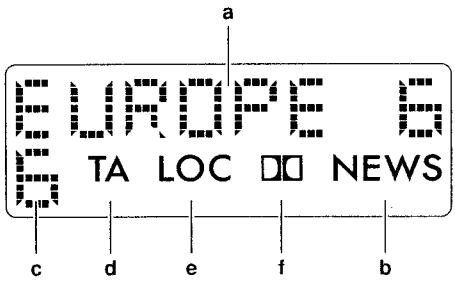


- Stick the supplied 'Security' warning stickers on your car windows.

4. IDENTIFICATION NUMBER



This set has a unique identification number (stated on the 'Security Card').
Remove the 'Security Card' before installing the set.

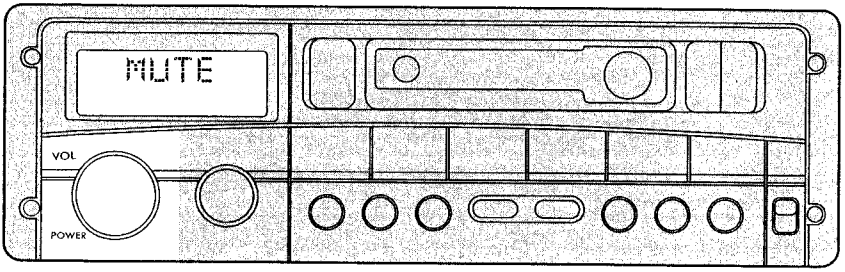


(a) Information concerning function: Radio, Cassette, CD*, Audio setting or Initialisation.
(b) **NEWS:** Radio is in NEWS mode to give priority to News bulletins.
(c) **1 to 6:** Preset station (radio), or disc number (CD)*.
(d) **TA:** Radio is in TA mode to give priority to Traffic Announcements.
(e) **LOC:** Radio is in local mode (radio only stops at strong stations when using search tuning on FM).
(f) DD : Dolby ® B Noise Reduction* switched on.

®Dolby Noise Reduction manufactured under license from Dolby Laboratories Licensing Corporation. 'DOLBY' and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

**** only for certain versions.***

ON/OFF, VOLUME . . .



ON/OFF/VOLUME

1 Press the POWER knob to switch the set on or off.
2 Turn the Volume knob to adjust the volume.

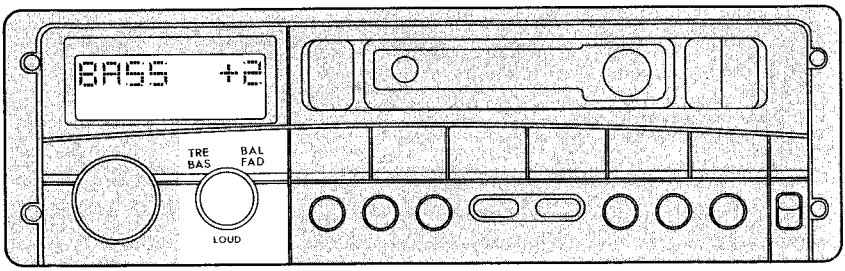
AUDIO MUTE (SILENCE)

If you want to receive Traffic Announcements and/or News bulletins and yet you want to have silence in the car:

1 Switch on the TA mode (see 'TRAFFIC INFORMATION ON FM') and/or switch on the NEWS mode (see 'NEWS BULLETINS ON FM'.)
2 Turn the Volume knob down until the display shows 'MUTE'.
3 To cancel mute, turn the Volume knob up to increase the volume.

Telephone mute

Certain car telephones can automatically interrupt the set's audio output. The display shows 'CALL' when the phone is in use. See 'MOUNTING INSTRUCTIONS'.



BASS/TREBLE/BALANCE/FADER

1 Press the BAS/TRE/BAL /FAD control briefly as many times as needed to select the desired function (See display).
2 Turn the BAS/TRE/BAL /FAD control to adjust the level.

Adjusting audio setting				
	Bass (low notes)	Treble (high notes)	Balance	Fader
Display	**BASS**	**TREBLE**	**BAL**	**FAD**
Maximum (clockwise)	9	9	– – 9 (right)	– – 9 (front)
Mid-position	0	0	– 0 –	– 0 –
Minimum (anti-clockwise)	– 9	– 9	9 – – (left)	9 – – (rear)

Independent bass/treble settings

The bass and treble settings are stored independently for the following sound sources:

1 The FM radio bands
2 Traffic Announcements / News bulletins / Emergency announcements on FM (setting only possible during an Announcement),
3 The AM radio bands (MW, LW and SW*)
4 Cassette
5 CD* changer (if connected).

- Set your own bass and treble preferences while using these sources.

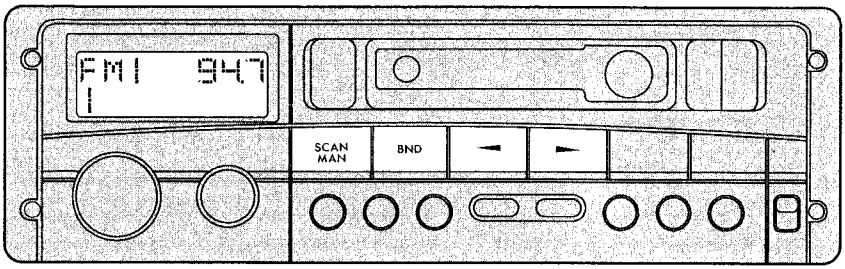
LOUDNESS

If desired you can switch on loudness to increase the high and low notes at low volume settings.

1 Press the LOUD knob for at least 2 seconds (until you hear a beep) to switch loudness on or off.
   – The display briefly shows 'LOUD ON' or 'LOUD OFF'.

**** only for certain versions.***

WAVEBAND



SELECTING WAVEBAND

- Briefly press the BND key to select the desired waveband.

FM1, FM2, FM3	FM (VHF)	87.5 - 108 MHz
MW1, MW2	Medium Wave	531 - 1629 kHz
LW	Long Wave	144 - 288 kHz
SW*	Short Wave	5950 - 6200 kHz (49 m band)

FM1, FM2 and FM3 cover the same frequencies. The same is true for MW1 and MW2. The extra bands increase the possible number of preset stations.

TUNING TO A STATION

- Tune to a radio station using one of the following methods:

– Search tuning;
– Manual tuning;
– Recalling a preset station;
– Auto-Store.

Tuning to SW stations*

Consult the 'World Radio & TV Handbook' for details of SW transmitter frequencies and broadcasting times.

SEARCH, MANUAL TUNING

You can use the ◄ and ► keys in two different tuning modes: search or manual tuning. When you switch on the set, it is in search tuning mode. You can switch to manual tuning mode if desired (see 'MANUAL TUNING').

**** only for certain versions.***

. . . SEARCH, MANUAL TUNING

SEARCH TUNING

Use search tuning to quickly search for a station.

[1] Briefly press the BND key to select the desired waveband.

[2] Press the ► key or ◄ key.
► = higher frequency; ◄ = lower frequency.
– You will receive a station after a short time.

[3] To search for another station, press the same key again.

If no station is found after the whole band has been searched, the radio searches for weaker stations.

Note:
If you have switched on the TA mode, the radio will only search for stations allowing the reception of Traffic Announcements. (See 'TRAFFIC INFORMATION ON FM'.)

LOCAL / DISTANT

This function is only used together with SEARCH TUNING on FM.

– If search tuning stops too frequently (on FM bands only):
[1] Press the LOC key for at least 2 seconds (until you hear a beep) to select LOCAL mode. The display shows 'LOC'.

In the LOCAL mode the radio first searches for strong stations and then weak stations.

– To return to DISTANT mode:
[2] Press the LOC key for at least 2 seconds (until you hear a beep). 'LOC' disappears from the display.

This is the preferred mode for search tuning in areas with weaker signals.

MANUAL TUNING

Use manual tuning if you know the frequency of the required station.

Switching from search tuning to manual tuning

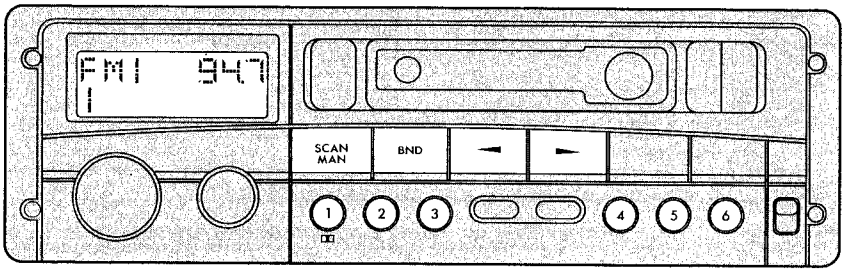
[1] Briefly press the BND key to select the desired waveband.
[2] Press the MAN key for at least 2 seconds (until you hear a beep).
[3] Tune to the desired frequency with the ► or ◄ key.
– **Fast tuning:** Keep the key pressed.
– **Step-by-step tuning:** Briefly press the key.

Switching back to search tuning

• Press the MAN key for at least 2 seconds (until you hear a beep).

Notes:
– The radio automatically switches back to search tuning mode after about 1 minute.
– With manual tuning you can select frequencies with more precision than with search tuning (not required in most cases).

PRESETS



STORING STATIONS ON PRESET KEYS

This radio has storage locations for

18 FM stations	6 x FM1, 6 x FM2, 6 x FM3
12 MW stations	6 x MW1,6 x MW2
6 LW stations	6 x LW
6 SW stations*	6 x SW

[1] Briefly press the BND key to select the desired waveband.
[2] Tune-in the desired station (See 'SEARCH TUNING' or 'MANUAL TUNING').
[3] Press the desired preset key (1 - 6) for at least 2 seconds (until you hear a beep).

Note: When storing on FM station, the AF mode (on or off) is stored on the preset.

RECALLING A PRESET

[1] Briefly press the BND key to select the desired waveband.
[2] Briefly press the desired preset key (1 - 6).

- The display shows the frequency of the selected station. For RDS stations this is followed by the station-name.

PRESET SCAN

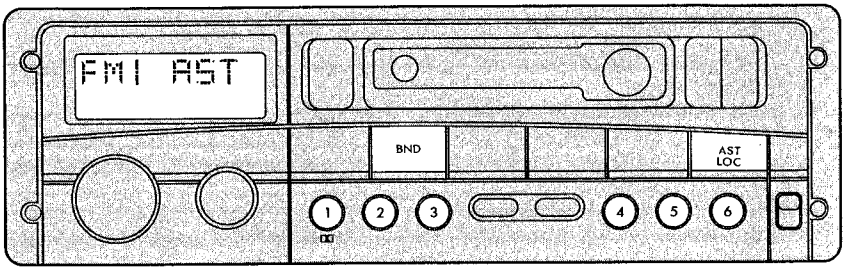
The scan function gives you a quick impression of all the stations which are stored on the presets in the current waveband. You hear each preset station in turn for about 10 seconds. If the station is very weak you will only hear the preset for about 3 seconds.

[1] Briefly press the SCAN key.
The display shows alternately:
- 'SCAN' and the waveband (for example 'FM3')
- the station-name (or frequency) and the preset number.

[2] To stop the scan, briefly press the SCAN key again.

**** only for certain versions.***

AUTOSTORE



By simply pressing one key you can automatically store 6 stations on the current waveband (except on SW).
Use Auto-Store to quickly find the strongest stations, for example when travelling through different reception areas.

When you use Auto-Store, the new stations replace any stations previously stored on the current waveband.
The AST search begins from the currently-tuned frequency.

AUTOMATICALLY STORING STATIONS ON PRESET KEYS

1. Select the waveband on which you want to store the stations with the BND key.
2. Press the AST key.
   - The set gives a beep and then mutes.
   - The display shows 'AST'.
   - The radio stores 6 stations on the current waveband.
   - When it has finished you hear a beep.

Interrupting Auto-Store: If you accidentally press the AST key, you can cancel the Auto-Store function by switching the set off and then on again before the AST function has been completed.

Recalling Automatically-stored stations

1. Select the desired waveband.
2. Use the preset keys (1-6) or use Preset Scan.

Notes:
- Sometimes it may not be possible to find six stations. In this case, the remaining presets (for example 5 and 6) are programmed with '0000'.
- Auto-Store is not available on SW* (the set gives an error beep).

**** only for certain versions.***

RADIO DATA SYSTEM (RDS) ON FM

RDS is a system in which inaudible digital information is transmitted in addition to the normal FM radio broadcast. This car radio uses the RDS information to offer you many advantages, including:

- **Display of station-name:** The set displays the name of the station instead of its frequency.
- **Automatic retuning:** When the AF function is activated, the set maintains the best possible reception. The set continuously checks a list of Alternative Frequencies (AF) for the tuned radio station and automatically selects the best frequency for you.
- **Traffic information:** When the TA function is activated, the radio tunes to a station which may broadcast traffic information (TP = Traffic Programme) and receives Traffic Announcements (TA) when broadcast. You can receive Traffic Announcements even when listening to cassette or CD* or during audio mute.
- **News bulletins:** When the NEWS function is activated, the radio can receive News bulletins from the tuned station, even when listening to cassette or CD* or during audio mute.
- **Information from related radio stations:** Enhanced Other Networks (EON) is an RDS service where the broadcaster links some stations together. If you are tuned to a station which is linked to others by EON, the set is capable of receiving Traffic Announcements and/or News bulletins from both the tuned station and related stations.
- **Automatic tracking of regional programmes:** This radio ensures that when listening to a regional programme, the radio will stay tuned to the same regional programme as long as possible.
- **Emergency announcements (PTY Alarm)**: This set automatically receives emergency announcements made by the broadcasters using the RDS PTY alarm service. (During the message the display shows 'ALARM' and the station-name alternately).

When an RDS transmission is received, the display shows the station name.

Switching off automatic retuning

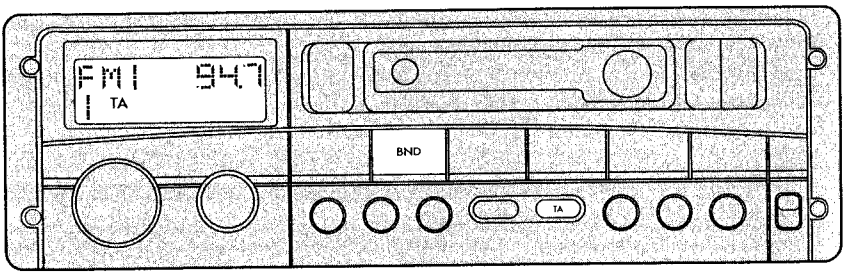
- If you want to prevent the radio from retuning to Alternative Frequencies briefly press the AF key (For versions with CD changer control: Press the AF key for more than 2 seconds).
  - The display briefly shows 'AF OFF' and the radio stops checking Alternative Frequencies.
- To switch on automatic retuning again, briefly press the AF key again (For versions with CD changer control: Press the AF key for more than 2 seconds).
  - The display briefly shows 'AF ON'.

Notes

- Automatic retuning is activated again if you tune to another station (or if you switch the set off and then on again).
- 'AF ON' or 'AF OFF' is stored on each preset. If you store a station on a preset when AF is switched off, the radio will not check Alternative Frequencies whenever you select this preset.

**** only for certain versions.***

TRAFFIC INFORMATION ON FM



You can **switch on the TA mode** to give priority to traffic information. As a consequence the radio may automatically retune to another station which enables it to receive traffic information.

Switching on TA mode

1 Select an FM band.
2 Briefly press the TA key. The display shows 'TA'.
- If the display shows 'NO TA': The radio was not already tuned to a station enabling the reception of Traffic Announcements. The radio automatically searches until it finds another station.
- You will now hear Traffic Announcements when broadcast.
- When set receives traffic announcements from other stations (linked by EON), the set temporarily shows the name of that station.

Notes: If the radio continuously searches, you are in an area where no traffic information is broadcast according to the RDS system. Briefly press the TA key to switch off the TA mode.

Switching off TA mode

- Briefly press the TA key. 'TA' disappears from the display.
  Traffic Announcements no longer have priority.

Traffic Announcements during cassette/CD* playback or MUTE

If you play a cassette/CD*, or mute the set, while the TA mode is switched on (display shows 'TA'), you will still hear Traffic Announcements when broadcast.

**** only for certain versions.***

TRAFFIC INFORMATION ON FM *(continued)*

Interrupting a Traffic Announcement

If you do not wish to continue listening to a particular Traffic Announcement, you can interrupt it without switching off the TA mode.

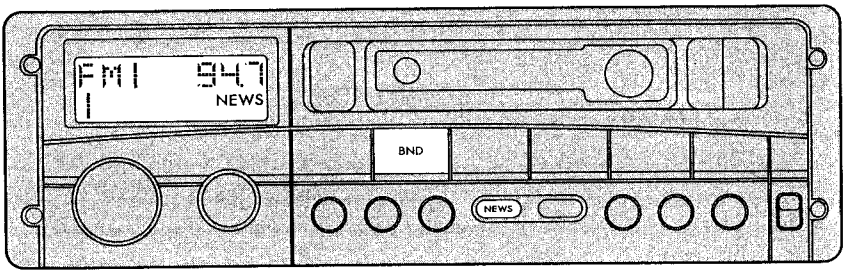
• Press the TA key for at least 2 seconds (until you hear a beep) during the announcement. ('TA' remains on the display.)

Notes:

- If the TA mode is switched on, search tuning only selects stations which enable the reception of Traffic Announcements.
- If the tuned station becomes too weak to enable the set to provide the RDS traffic service, you will hear beeps repeated at intervals. Use search tuning to find another station.
- Volume level for traffic messages: You will hear Traffic Announcements at a preset volume level. You can change this volume level if desired, see 'INITIALISATION'.

***only for certain versions**

NEWS BULLETIN ON FM *(PTY NEWS)*



You can switch on the NEWS mode to give priority to news bulletins.

Note: PTY NEWS is not yet implemented in all countries.

Switching on NEWS mode

1 Select an FM band.
2 Briefly press the NEWS key. The display shows 'NEWS'.
3 Tune to a station which broadcasts PTY NEWS (or a station linked by EON to a station which broadcasts PTY NEWS).

– You will now hear news bulletins when broadcast.
– When the set receives a news bulletin broadcast by another station (linked by EON), the set temporarily shows the name of that station .

Switching off NEWS mode

- Briefly press the NEWS key. 'NEWS' disappears from the display.

News bulletins no longer have priority.

NEWS during cassette/CD* playback or MUTE

If you play a cassette/CD*, or mute the set, while the NEWS mode is switched on (display shows 'NEWS'), you will still hear news bulletins when broadcast.

Interrupting NEWS

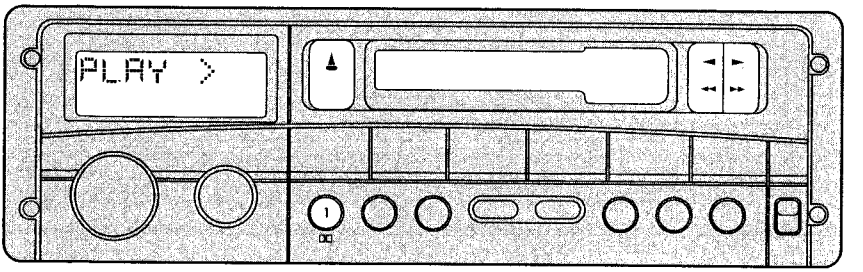
If you do not wish to continue listening to a particular news bulletin, you can interrupt it without switching off the NEWS mode.

- Briefly press the NEWS key for at least 2 seconds (until you hear a beep) **during the news bulletin**. ('NEWS' remains on the display). The set returns to cassette/CD* playback, audio mute or the originally-tuned radio station.

Note:
TA mode has priority over NEWS mode. News bulletins may be interrupted by Traffic Announcements (if the TA mode is switched on).

**** only for certain versions***

CASSETTE PLAYER



PLAYBACK

Before inserting a cassette, ensure set is switched on.

- Slide the cassette (with the open side to the right) into the cassette opening until it is pulled in automatically.
  - Cassette playback starts. The display shows 'PLAY >'.

Autoreverse: At the end of the tape, playback automatically continues with the other side of the tape. The direction of play shown on the display will change.

Dolby ® B Noise Reduction*

- If the cassette has been recorded using the Dolby B NR system, press the DD key for optimal reproduction.
  - The display shows ' DD '.
- To switch off the Dolby B NR system, press the DD key again.
  - The display ' DD ' will disappear.

Notes:

- Traffic Announcements may interrupt cassette playback if the TA mode is switched on.
- News bulletins may interrupt cassette playback if the NEWS mode is switched on.

CASSETTE EJECT

1. Press the ▲ key fully home.
   - The cassette is ejected and the set switches to radio reception.
2. Remove the cassette from the player.

REVERSE

- To change the direction of play before the end of the tape, press both the ◀◀ and ▶▶ key simultaneously. The tape running direction shall be reversed.
  - The direction of play shown on the display changes.

only for certain versions.

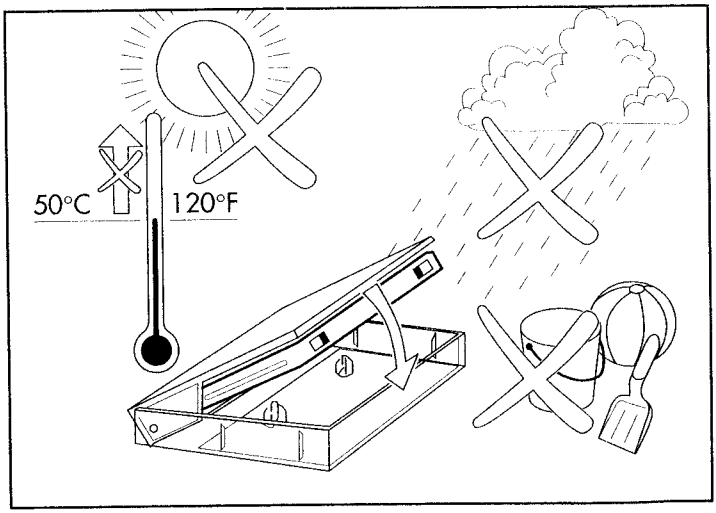
CASSETTE PLAYER *(continued)*

FAST FORWARD / FAST REWIND

- Press the ▸▸ or the ◂◂ key into a locked position.
  - The display shows 'FAST < >' (for fast forward) or 'FAST < >' (for fast rewind).
  - You hear the radio.
  - After the tape has wound to the end, playback automatically starts.
- If you want to stop the fast forward / rewind before reaching the end of the tape, press the other key ▸▸ or ◂◂ which is not pressed.
  - Playback will resume.

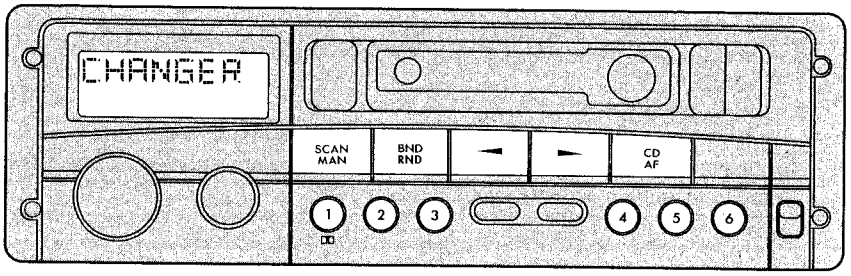
Notes:

- Only use good quality cassettes (cassettes longer than C-90 are not recommended).
- Put cassettes back in their boxes immediately after use to protect them from dust and dirt and to prevent the tape from unwinding.
- Never expose cassettes to heat, direct sunlight or moisture.
- **To avoid possible tape damage always eject the cassette out of the set when not in use.**



**** only for certain versions.***

CD* CHANGER (for DC532 and DC537 only)



A Philips CD* changer (with D²B bus) can be connected to this car radio. See your dealer for more information.

- **Check that the magazine is loaded with discs and inserted in the CD* changer.**

CD PLAYBACK

- Select CD by briefly pressing the CD key. The display shows 'CHANGER'.
  - If you want to start playback commencing with a specific disc, you can directly access the disc in the CD* changer:
- Press one of the preset keys (1 - 6) to select the desired disc.
  - The display shows the total number of tracks and the total playing time and the disc number (for example 'T14 61:10 2').
  - The player starts playback, beginning with track 1.
  - The display then shows: 'T', the current track number, the elapsed time and the disc number (for example 'T01 00:21 4').
  - At the end of the disc, playback automatically continues with the next disc. If you have loaded fewer than 6 discs, any missing disc is automatically skipped.

Notes:

- Traffic Announcements may interrupt CD* playback if you have switched on the TA mode. (See 'TRAFFIC INFORMATION ON FM'.)
- News bulletins may interrupt CD* playback if you have switched on the NEWS mode. (See 'NEWS BULLETINS ON FM'.)
- If you hear a beep and/or the display shows 'NO DISC' or 'CD ERROR':
  - Check that the magazine has been loaded with discs and inserted in the CD* changer.
  - Check that the discs have been inserted the correct way up.
  - Check that you have not inserted a damaged disc or dirty disc.

PLAYING A SPECIFIC TRACK (NEXT / PREVIOUS)

- Briefly press the ◄ or ► key one or more times to select the desired track (for example 'T01 >T02').

- Playback resumes starting from the chosen track.
- If you want to return quickly to the **first track on the current disc:**
  - Press the preset key (1 - 6) corresponding to the disc being played.

only for certain verions.

CD* CHANGER *(continued)*

FAST FORWARD/BACKWARD

[1] To quickly move to another part of the disc during playback, press the ◄ or ► key for at least 2 seconds.
[2] Release the key to resume normal playback.

Note: Fast forward / backward is possible across the complete disc if the player is in normal play mode. However, in random mode it is only possible within the current track on the disc.

SCAN

The scan function enables you to become familiarized with the disc in a convenient way.

[1] Briefly press the SCAN key.
- The display shows 'SCAN' and the track number being scanned.
- You hear the first 10 seconds of each track.
- After the last track on the disc has been scanned, the set continues the scan from the first track on the same disc.

[2] Briefly press the SCAN key again when you hear a track which you like.
- Normal playback resumes.

RANDOM PLAYBACK

You can play the tracks on the disc in a random order.

[1] Press the RND key.
- The display shows: 'R', the track number and the playing time (for example 'R01 10:45').
- After all the tracks on the disc have been played, Random play continues on the next disc, and so on.

Notes:
- If you briefly press the ► key, a randomly-selected track will be played.
- If you briefly press the ◄ key, the previously played track will be recalled and played. (The set remembers the track numbers of the last three tracks played.)

[2] To resume normal playback, press the RND key again.
- The display shows 'T', the track number and the elapsed time.

SWITCHING BACK TO RADIO/CASSETTE

- Briefly press the CD key.
- CD* playback stops. The set returns to radio or cassette playback.

**** only for certain versions.***

INITIALISATION

It is possible to modify many of the set's initial settings according to your preferences.

Selecting personal settings

1. Switch on the set.
2. Press the BND key **for at least 2 seconds** (until you hear a beep) to enter the 'INIT' mode.
   - The display shows 'INIT' and then the setting to be changed.
3. Press the SCAN key one or more times until the **option** you want to modify is displayed (see list of 'INIT' options).
4. Briefly press the ◄ or ► key one or more times to adjust the **choice**.
   - The choice shown on the display will be memorized by the set when you select another option or leave the 'INIT' mode.
5. Press the BND key **for at least 2 seconds** (until you hear a beep) to leave the 'INIT' mode.

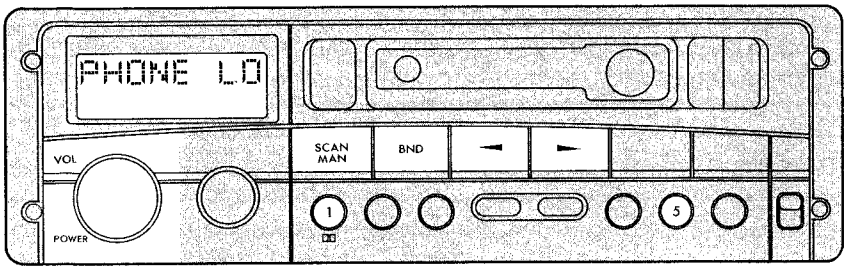
Note: The set automatically leaves the 'INIT' mode about 1 minute after your last operation.

'INIT' options

Initial settings (when set leaves factory) are shown in **bold**. If you are unsure of the best choice, choose the factory setting.

Option	Choice	Usage
SRC*	[**CDC**, AUX]	Source connected to connector C of the car radio: Select 'CDC' if connecting a Philips CD* changer (D2B type). Select 'AUX' if connecting a portable audio player.
AUDIO	[5 ... **8** ... 17]	Reference volume level of set
TAPE	[-2, -1, **0**, +1, +2]	Volume level of cassette relative to tuner
CDC*	[-2, -1, **0**, +1, +2]	Volume level of CD* Changer relative to tuner
AUX*	[-2, -1, **0**, +1, +2]	Volume level of AUX input relative to tuner
TA	[-2, -1, **0**, +1, +2]	Relative volume level of Traffic Announcements and News bulletins relative to tuner
PHONE	[**NO**, HI, LO]	Select 'HI' or 'LO' according to phone ('LO' in most cases). Select 'NO' if no phone connected.
BLEEP	[-2, -1, **0**, +1, +2]	Select volume level of confirmation beeps (useful if external amplifier is connected)
LW	[**ON**, OFF]	Select 'OFF' to suppress LW band if it is not used
SW*	[**ON**, OFF]	Select 'OFF' to suppress the SW band if it is not used
LOGI	[ON, **OFF**]	Select 'ON' if you want to be able to use the set even when the car ignition is switched off The 'On/off logic' feature enables use of the set (for one hour) even when you have removed the car ignition key (see 'MOUNTING INSTRUCTIONS'.)

**** only for certain versions.***



DEMONSTRATION MODE (FOR THE DEALER)

In this mode the display shows the main features of the set.

Switching ON demo mode:

1 While keeping the Preset 1 and Preset 5 keys pressed, switch on the set.
2 Keep the Preset 1 and Preset 5 keys pressed.
The set remains in the demonstration mode, even if you switch the set off and then on again.

Switching OFF demo mode:

1 Switch off the set.
2 Follow exactly the same procedure as 'Switching ON demo mode'.

PREVENTIVE MAINTENANCE

Cleaning connectors for detachable keyboard

To ensure good connection between the set and the detachable part, it is advisable to clean the connectors with a cotton swab from time to time.

Cleaning cassette player tape head (and tape path)

Dust, contamination or grime can accumulate on the tape head after extended use of the cassette player. This results in diminishing high-note reproduction. In the case of severe contamination, reproduction of one or both channels may totally fail.

Clean the tape head (once or twice a month) using a wet-type cleaning cassette.

**** only for certain versions.***

CHECKS BEFORE REQUESTING SERVICE

There may be times when you suspect that your car radio is not functioning as you expect it to. Before calling for service please read the operating / mounting instructions and check the following list. You may find that an apparent malfunction can easily be rectified.

Symptoms	Possible Cause / Remedy
***General**	
Set does not function, No Display.	Check fuse (set and car) and connections.
Set functions but with no or poor sound.	• Adjust volume of set. • Check fader and balance settings. • If car phone is connected, check setting for 'PHONE' option in 'INIT' mode.
Set mutes when you drive the car.	• Set 'PHONE' option to 'NO' in 'INIT' mode.
Detachable keyboard of set feels warm.	Some heat is always generated by the set.
Displays scrolls set's specifications.	• Refer to 'DEMONSTRATION MODE' section.
*** Radio**	
Poor radio reception.	• Check that the aerial is fully extended and properly connected.
Display shows 'SEARCH' and station name alternately.	Set is searching for the Station. This happens when broadcast is too weak. • Wait until set completes its search.
Display shows frequency (not station name).	Set is tuned to non-RDS station.
Display shows 'ALARM'.	Emergency announcements (PTY Alarm) is being broadcast.
Unable to tune to desired station with Search tuning.	– The desired station is too weak. • Repeat Search tuning with local search mode (LOC) OFF. • Tune to desired station using Manual Search. – Set is in TA mode: only stations with Traffic Announcements can be tuned in. • If necessary switch OFF TA mode. • Check that the aerial is fully extended.
Displays shows 'NO TA' and set bleeps.	Set is in TA mode but the selected station does not broadcast Traffic Announcements (TA). • Switch OFF TA mode or tune to another station.
*** Cassette**	
Cassette playback lacks high-notes or loss of one channel.	• Clean cassette player tape head.
Cassette mechanism changes direction of play before end of tape.	Rewind cassette to the end of the tape.
*** CD***	
Display shows 'NO DISC' or 'CD ERROR'.	No CD inserted or CD inserted upside-down or damaged or dirty or of the wrong type.
Distorted sound during playback.	Player unable to read disc. CD damaged or dirty.

If you still have to send your set for service, always send the complete set (with detachable keyboard). Do not try to open the set to service it yourself.

**** only for certain versions.***

MOUNTING INSTRUCTIONS (see pages 3-4)

Aerial: Good reception is only possible with a good aerial. Position the aerial as far as possible from the ignition assembly. The aerial earthing bar or strap must contact clean metal. Protect this contact against corrosion with silicone grease or another rust preventer.
Adaptor cables: Specific adaptor cables (which simplify connection of the set) are available for many cars. Refer to the table at the end of this booklet. Contact your dealer for further information.

[1] POWER SUPPLY

Voltage and polarity: The set must be connected to a 12 V car battery with negative terminal to earth (car chassis).

- Use the same earthing point for the radio and all other audio equipment (to minimize interference).

Possible connecting points for a **permanent** 12 V supply:
- the supply lead for the car-interior lighting;
- the supply lead for the clock; or
- a contact in the fuse-box with permanent voltage.

This supply is needed for the set's memory. It also ensures that a CD* changer functions correctly.
This voltage must never be interrupted, even when starting or switching off the engine.

Possible connecting points for a **switched** 12 V supply:
- the 12 V lead provided by the car manufacturer for the radio; or
- the accessory contact of the ignition switch.

WARNING: To prevent short-circuiting, disconnect the negative car battery terminal until the set has been mounted and connected.

PREPARING CONNECTOR A' FOR . . .
1.1 Recommended power supply connections

[1] **BROWN** lead [A8]: Connect to an earthing point on the car body.
[2] **RED** lead [A7]: Connect to a **switched** 12 V supply.
[3] **YELLOW/RED** lead [A4]: Connect to a **permanent** 12 V supply.

1.2 Alternative power supply connections (for 'ON/OFF LOGIC')
The 'ON/OFF LOGIC' feature in this set functions only if your car has been prepared for it (e.g. VW and Opel/Vauxhall cars). Consult your car service manual or check with your dealer to confirm this. See illustration for correct connection.
[1] **BROWN** lead [A8]: Connect to an earthing point on the car body.
[2] **RED** lead [A7]: Connect to a **permanent** 12 V supply.
[3] **YELLOW/RED** lead [A4]: Connect to a **switched** 12 V supply.
[4] See 'INITIALISATION', option 'LOGI' to activate this feature.

**** only for certain versions.***

MOUNTING INSTRUCTIONS (see pages 3-4)

OPTIONAL CONNECTIONS

1.3 Electronic/motor aerial: Connect the supply for an electronic aerial or the control lead for the relay of an automatic motor aerial to pin [A5]. Use the small contact supplied.
Do not use this connection point for supply of the aerial motor!

1.4 Pilot light: When the car headlamps are switched on, the on/off control of the radio is illuminated (even when the radio is switched off).
Connect pin [A6] to the dashboard illumination wiring of your car. Use the small contact supplied.

1.5 Telephone mute: If your car telephone provides a mute signal, it can be used to automatically interrupt the set's audio output:
Connect the telephone mute wire to connector [A1]. Use the small contact supplied.
Refer to 'INITIALISATION'. Select option 'PHONE' and choose 'HI' or 'LO' according to your telephone mute signal. (In most cases this is 'LO'.)

Note:
- In certain VW and Opel/Vauxhall cars, the connector [A1] is used as a speed-dependent volume control (GALA). Ask your authorized VW or Opel/Vauxhall dealer to modify this connection if you want to use the telephone mute feature.

PREPARING CONNECTOR B' (FOR LOUDSPEAKERS)

- **Only use loudspeakers which have an impedance of 4 ohms.**
- **Ensure that the loudspeakers are connected in phase by using marked speaker terminals for the phase (+) connections.**
- **Do not connect any of the loudspeaker leads to earth!**
- **Do not connect a booster/amplifier directly to the loudspeaker outputs!**
- **Do not connect loudspeakers via an external fader!**

2.1 Connecting 4 loudspeakers (see illustration)

1 = Rear Right phase (RR +) 2 = Rear Right return (RR–)
3 = Front Right phase (FR +) 4 = Front Right return (FR–)
5 = Front Left phase (FL +) 6 = Front Left return (FL–)
7 = Rear Left phase (RL +) 8 = Rear Left return (RL–)

2.2 Connecting 2 loudspeakers (see illustration)
3 = Right phase (R+) 2 = Right return (R-)
5 = Left phase (L+) 8 = Left return (L-)

PREPARING CONNECTOR C' FOR . . .

2.3 CD* Changer – You can connect a CD* changer (with D²B controls) to this set (see the mounting instructions for the CD* changer).

2.4 PORTABLE PLAYER* – To increase your listening possibilities you can connect a portable DCC, CD or cassette player to this set (in place of a CD* changer). Use the cable mentioned in the illustration. The cable must be connected to an output of 750 mV (in most cases the headphone output of the portable player is suitable).

[1] Select option 'INPUT ' and set the choice to 'AUX' as described under 'INITIALISATION'. This indicates to the set that a portable player is connected instead of a CD* changer.

[2] Increase the volume of the portable player to desired level.

**** only for certain versions.***

MOUNTING INSTRUCTIONS *(continued)*

3. INSTALLING METAL SLEEVE

3.1 Metal sleeve

[1] Insert metal sleeve into the opening (182 x 53 mm) in the car dashboard or console.

[2] Fix metal sleeve into place by pressing the metal tags outwards using a screwdriver.

Rear support: Depending on car mounting situation, a rear support may be necessary. Certain cars are provided with a rear support hole. For other cars, a rear support bracket should be fitted.

4. CONNECTING RADIO

4.1 Fit antenna adaptor if needed

4.2 Insert aerial plug into aerial adaptor/socket.

4.3 Screw rubber buffer onto fixing stud at rear of set.

4.4 Insert loudspeaker plug **B** into socket **B'**.

4.5 Insert power supply plug **A** into socket **A'**.

4.6 (optional) Remove the plastic cover from socket **C'** and insert the rectangular plug from the CD* changer or Portable player.

4.7 (optional) **Line output (4-channel)**: You can connect a power amplifier (with additional loudspeakers) to this set. Use the adaptor cable (CINCH) mentioned in the illustration which is available from your dealer. Insert the rectangular plug **D** into socket **D'**.

5. MOUNTING RADIO

- Slide the radio into the metal sleeve until the springs at either side of the radio snap into the openings of the sleeve.
- Reconnect the negative car battery terminal.

– Installation is now complete.

---

6. REMOVING RADIO

You can unlock the radio using the two U-shaped brackets supplied.
Insert both brackets [x] into the holes [y] on the front of the set [y] until they lock.
Remove the radio from the metal sleeve.

REPLACING FUSE (see illustration 4)
Pull fuse out of connector block at rear of radio.
Replace with a blade-type fuse of the correct rating.

Interference suppression: Most modern cars have sufficient interference suppression. If you experience interference generated by the car, consult your garage.

**** only for certain versions.***

UK & Ireland

Your European Guarantee

Dear customer

Thank you for purchasing this Philips product which has been designed and manufactured to the highest standards and subjected to rigorous testing. Provided it is properly operated and maintained it will perform well for many years.

Philips guarantees to provide free of charge labour and replacement parts in any EEC or EFTA country for all serviceable Philips branded consumer electronic products purchased in those countries.

The legal responsibility for meeting any in-guarantee service needs for your product rests with the dealer from whom you bought it. If your dealer has no service facilities, he can arrange for any work to be carried out by a competent third party organisation.

In the event that you require service whilst in another EEC/EFTA country please contact the local Philips Help Desk whose number can be found in the relevant part of this booklet.

The foregoing applies during a period of 12 months from the date of purchase, provided the product is properly used in accordance with its operating instructions and upon presentation of the original invoice or cash receipt indicating the date of purchase, dealer's name with the product type and serial number.

The Philips guarantee may not apply if :

- The invoice or cash receipt has been altered in any way or made illegible.
- The type or serial number on the product has been altered, deleted, removed or made illegible.
- Repairs have been executed by unauthorised service organisations or persons.
- Damage is caused by accidents including and not limited to lightning, water or fire, misuse or neglect.
- The product requires modification or adaption to operate in any country other than the country for which it was designed and manufactured, or if any damage results from these modifications.

In order to avoid unnecessary inconvenience, we advise you to read the operating instructions carefully before contacting your dealer or service organisation.

Continuing service after the guarantee period is available but the service will be chargeable.

These statements do not affect your statutory rights as a consumer.

If you have any questions which your dealer cannot answer please write or call :

U.K.

Philips Consumer Relations
Philips Car Stereo, 6 Talisman Road,
Bicester, Oxon., OX6 0JX

Tel: (0869) 320333
Fax: (0869) 365005

Address for service:
Philips Car Stereo,
2219 Coventry Road, Sheldon,
Birmingham B26 3EG

Tel: 021-742 0558

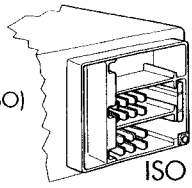
Ireland

Philips Electronics Ireland Ltd
Newstead
Clonskeagh
Dublin 14

Tel: 64 00 00

NOTES

ADAPTOR CABLES (for cars which do *not* have standard ISO connectors)
CÂBLES D'ADAPTATION (pour des voitures *non-équipées* de connecteurs au standard ISO)
ANPASSUNGSKABEL (für Fahrzeugtypen die *keine* standard ISO-Stecker haben)
ADAPTERKABELS (voor auto's die *geen* standaard ISO connectors hebben)
CAVI ADATTATORI (per le auto che *non* sono dotate di connettori ISO standard)
CABLES DE ADAPTACIÓN (para vehículos que *no* incluyen conectores standard ISO)
CABOS ADAPTADORES (para viaturas *sem* conectores normalizados ISO)
ADAPTERKABLAR (för bilar som *inte* har ISO standardkontakter)
ADAPTERKABLER (for alle biler der *ikke* har standard ISO connectorer)
SOVITUSJOHDOT (autoille joissa *ei* ole ISO-normin mukaisia liittimiä)



Brand	Car Type	Adaptor Cable
Alfa Romeo	Alfa 155	EA 6176
Audi	all models 9/87 →	EA 6179
BMW	all models 9/89 → prepared for radio	EA 6195
Citroën	all models (*except* XM, BX)	EA 6176
	XM	EA 6166
Daihatsu	Cuore, Rocky, Feroza, Applause 9/92 →	EA 6151
Ford	all models 3/89 → prepared for radio	EA 6190/00
	all models 3/89 → *not* prepared for radio	EA 6190/02
	Mondeo	EA 6244
Honda	all models (*except* Accord 3/93 →)	EA 6168
	Accord 3/93 →	EA 6176
Hyundai	all models	EA 6242
Mazda	121 2/91 →, 323 sedan 9/89 →, 626 sedan 10/87 - 1/92, 626 hatchback 10/87 - 1/92, 929 5/87 →, MX3, MX5, MX6, RX7	EA 6194
	121 4/88 - 1/91, 323 sedan 9/85 - 8/89, 323 hatchback 9/85 - 8/89	EA 6154
Mercedes	(W201) 190, 190E, 190D	EA 6115 + EA 6112
	(W124) 200 - 300 sedan	EA 6115 + EA 6112
	MB 100 D	EA 6241
Mitsubishi	all models	EA 6155/02
Nissan	all models	EA 6162
Opel	all models 1/89 →, (Corsa 1/82 →)	EA 6176
Peugeot	106, 205, 309, 405 sedan 9/88 - 8/92, 405 Break 9/88 - 8/92, 605	EA 6166
	306, 405 sedan 9/92 →, 405 Break 9/92 →	EA 6176
Renault	Twingo, R5 Campus, R5 1/85 → . Clio 6/90 - 8/92, R19 hatchback 9/88 - 3/92, R19 Chamade 6/89 - 3/92, R21 Sedan 9/89 → , R21 hatchback, R21 10/86 - 8/91, Espace, Rapid, Express	EA 6153
	Clio 9/92 →, R19 hatchback 4/92 →, R19 sedan 4/92 →, R19 Cabriolet, Safrane	EA 6176
Rover	all models (*except* 6 and 8 series)	EA 6113 + EA 6112
Seat	Ibiza 7/93 →	EA 6179
	Ibiza 1/89 → 6/93	EA 6222
	Toledo	EA 6179
Suzuki	Swift, Vitara	EA 6234
Toyota	all models 1987 →	EA 6151
Vauxhall	all models 1/89 →, (Corsa 1/82 →)	EA 6176
Volvo	240, 440, 480 → 12/90, 460 3/90 - 12/90, 740 → 12/90	EA 6158
	240 1/91→, 440, 480 1/91 →, 460 1/91 →	EA 6220
	850, 740 1/91 →, 940, 960	EA 6170
VW	all models (except Taro)	EA 6179
	Taro	EA 6151

Subject to change without notice.

PHILIPS

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Version	DC512	DC522	DC532
CDCC CD CHANGER CONTROL			✓
DOLBY B		✓	✓
SW			✓

Guarantee certificate is on the apparatus
Certificat de garantie sur l'appareil
Der Garantieschein befindet sich auf dem Gerät
De garantiekaart is op het apparaat geplakt
Il certificato di garanzia è sull'apparecchio
El certificado de garantía accompaña al aparato
O certificado de garantia acompanha o aparelho
Garantibeviset finns på apparaten
Garantibeviset er klistret på apparatet
Takuutodistus toimitetaan laitteen mukana

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